

You are building a tool that will process images from retail stores and identify the products of competitors

###Custom Vision

Azure Machine Learning designer provides a drag-and-drop visual canvas to build, test, and deploy machine learning models.

###YES

Azure Machine Learning designer enables you to save your progress as a pipeline draft.

###YES

Azure Machine Learning designer enables you to include custom JavaScript functions.

###NO

You use natural language processing to process text from a Microsoft news story. You receive the output shown in the following exhibit

For weeks now, students and teachers have been settling into the uncharted routine of distance learning. Today I want to thank all of the educators who are connecting classrooms and classmates together in the sudden shift to remote learning. This change requires everyone working together and is unlike

###entity recognition

You can use the Azure AI Speech service to transcribe a call to text.

###YES

You can use the Azure AI Language service to extract key entities from a call transcript.

###YES

You can use the Azure AI Speech service to translate the audio of a call to a different language.

###YES

You need to generate cartoons for use in a brochure. Each cartoon will be based on a text description.

Which Azure OpenAI model should you use?

###DALLE

Match the services to the appropriate descriptions

Azure Storage

Azure AI Bot Service

Azure AI Language Service ### Enables the use of natural language to query a knowledge base:

Azure AI Speech ###Enables the real-time transcription of speech-to-text:

You need to create a customer support solution to help customers access information. The solution must support email, phone, and live chat channels.

### chatbot

parameter to produce more deterministic responses from a chat solution that uses the Azure OpenAI GPT-35 mo

###Temperature

Which type of Azure AI workload should you use to create illustrations based on the text of an article?

###Generative AI

The Azure OpenAI GPT-3.5 Turbo model can transcribe speech to text.

The Azure OpenAI DALL-E model generates images based on text prompts.

The Azure OpenAI embeddings model can convert text into numerical vectors based on text similarities

###NYN

Which two actions can you perform by using the Azure OpenAI DALL-E model? Each correct answer presents a complete solution.

##Create Image

##Generate Caption

Chatbots can only be built by using custom code.

The Azure AI Bot Service provides services that can be used to host conversational bots.

Bots built by using the Azure AI Bot Service can communicate with Microsoft Teams users

###NYN

What can be used to build an AI model that will create short articles for a website?

### ChatGPT

Which two tools can you use to call the Azure OpenAI service? Each correct answer presents a complete solution.

NOTE: Each correct answer is worth one point.

###Azure SDK for Python

###Azure REST API

What can be used to complete a paragraph based on a sentence provided by a user?

###Azure AI Language

\_\_\_ extension for Microsoft Visual Studio Code uses the OpenAI Codex model

###The GitHub Copilot

For a vehicle, predicting the miles per gallon based on weight, engine power, and other factors is an example of

###Regression

\_\_\_ solution can be used to extract data from scanned invoices

###Document intelligence

Which parameter should you configure to produce more verbose responses from a chat solution that uses the Azure OpenAI GPT-3.5 model?

###Temperature

An automated chatbot to answer questions about refunds and exchanges  
Determining whether a photo contains a person  
Determining whether a review is positive or negative  
###Knowledge mining  
###Computer vision  
###Natural language processing

You can fine-tune some Azure OpenAI models by using your own data.  
Pretrained generative AI models are a component of Azure OpenAI.  
To build a solution that complies with Microsoft responsible AI principles, you must build and train your own model.  
###YYN

Generate a caption from a given image: ###Computer vision  
Generate an image from a given caption: ###Generative AI  
Generate a 200-word summary from a 2,000-word article: ###Text analytics

Which two resources can you use to analyze code and generate explanations of code function and code comments?  
### the GitHub Copilot service  
###the Azure OpenAI GPT-4 model

The Azure OpenAI GPT-3.5 Turbo model can transcribe speech to text.  
##No  
The Azure OpenAI DALL-E model generates images based on text prompts.  
###Yes  
The Azure OpenAI embeddings model can convert text into numerical vectors based on text similarities  
###Yes

What should you do to reduce the number of false positives produced by a machine learning classification model?  
###Modify the threshold value in favor of false negatives.

You need to provide content for a business chatbot that will help answer simple user queries.  
What are three ways to create question and answer text by using Azure AI Language Service's question answering? Each correct answer presents a complete solution.  
NOTE: Each correct selection is worth one point.  
###Generate the questions and answers from an existing webpage.  
###Manually enter the questions and answers.  
###Import chat-chat content from a predefined data source.

////////////////////////////////////  
You can use the  
###Azure AI Custom Vision  
service to train an object detection model by using your own images.

Object detection can identify the location of a damaged product in an image.

Object detection can identify multiple instances of a damaged product in an image.

Object detection can identify multiple types of damaged products in an image  
###YYN

Which Azure AI Vision feature can you use to generate automatic captions for digital photographs?

###Describe the images

is used to identify and locate multiple types of items in one image

###Object Detection

In which two scenarios can you use the Azure AI Document Intelligence service (formerly Form Recognizer)? Each correct answer presents a complete solution

###Identify the retailer from a receipt.

###Extract the invoice number from an invoice.

An AI solution that helps photographers take better portrait photographs by providing feedback on exposure, noise, and occlusion is an example of facial

###Analysis

You are building a tool that will process images from retail stores and identify the products of competitors.

The solution must be trained on images provided by your company

###Azure AI Custom Vision

You need to determine the location of cars in an image so that you can estimate the distance between the cars.

Which type of computer vision should you use?

###object detection

You have a large dataset that contains motor vehicle sales data.

You need to train an automated machine learning (automated ML) model to predict vehicle sale values based on the type of vehicle

###Regression

Monitoring online service reviews for swearing or profanity is an example of natural language processing.

Identifying brand logos in an image is an example of natural language processing.

Monitoring public news sites for negative mentions of a product is an example of natural language processing

###YNY

You have a website that includes customer reviews.

You need to store the reviews in English and present the reviews to users in their respective language based on each user's geographical location.

Which type of natural language processing workload should you use?

###Translation

You need to provide content for a business chatbot that will help answer simple user queries.

What are three ways to create question and answer text by using Azure AI Language Service's question answering? Each correct answer presents a complete

solution.

###Generate the questions and answers from an existing webpage

###Manually enter the questions and answers.

###Import chat-chat content from a predefined data source

You can use our REST APIs to manage your Knowledge Base. See here for details:

<https://aka.ms/kb-info>

Which type of AI solution is shown in the diagram?

### a chatbot

You need to create a customer support solution to help customers access information. The solution must support email, phone, and live chat channels.

Which type of AI solution should you use?

###chatbot

For a machine learning process, how should you split data for training and evaluation?

###Randomly split the data into rows for training and rows for evaluation.

You need to predict the population size of a specific species of animal in an area.

Which Azure Machine Learning type should you use

###regression

You use Azure Machine Learning designer to publish an inference pipeline.

Which two parameters should you use to access the web service? Each correct answer presents part of the solution.

###the REST endpoint

###the authentication key

You train a regression model by using unlabeled data.

The classification technique is used to predict sequential numerical values over time.

Grouping items by their common characteristics is an example of clustering.

###NNY

You need to predict the income range of a given customer by using the following dataset.

First Name

Last Name

Age

Education Level

Income Range

Orlando

Gee

45

University

25,000-50,000

###Education Level

###Income Range

Which type of machine learning should you use to identify groups of people who have similar purchasing habits?

###clustering

A banking system that predicts whether a loan will be repaid is an example of the type of machine learning  
###classification

You have an Azure Machine Learning model that predicts product quality. The model has a training dataset that contains 50,000 records. A sample of the data is shown in the following table.  
Mass (kg) is a feature.  
Quality Test is a label.  
Temperature (C) is a label.  
###YYN

Azure Machine Learning designer provides a drag-and-drop visual canvas to build, test, and deploy machine learning models.  
Azure Machine Learning designer enables you to save your progress as a pipeline draft.  
Azure Machine Learning designer enables you to include custom JavaScript functions.  
###YYN

You can communicate with a bot by using a voice-activated virtual assistant.  
You can communicate with a bot by using Microsoft Teams.  
You can communicate with a bot by using a webchat interface  
###YYY

Providing contextual information to improve the responses quality of a generative AI solution is an example of which prompt engineering technique?  
###grounding data

Which two types of content can be generated by using Azure OpenAI generative AI apps? Each correct answer presents a complete solution  
###Text  
###Image

Which Azure AI Document Intelligence prebuilt model should you use to extract parties and jurisdictions from a legal document?  
###Contract

What are three stages in a transformer model? Each correct answer presents a complete solution.  
###tokenization  
###next token prediction  
###embedding calculation

Detect the genre of a work of fiction.  
Create a list of bullet points based on text input.  
Create advertising slogans from a product description.  
###classifying , Summarizing , Generating

Your company is exploring the use of voice recognition technologies in its smart

home devices. The company wants to identify any barriers that might unintentionally leave out specific user groups.

###Inclusiveness

What are three Microsoft guiding principles for responsible AI? Each correct answer presents a complete solution

###inclusiveness , fairness , reliability and safety

What are two tasks that can be performed by using computer vision? Each correct answer presents a complete solution

###Detect brands in an image

###Detect the color scheme in an image.

According to Microsoft's principle of responsible AI,

AI systems should NOT reflect biases from the data sets that are used to train the systems

###Fairness

Counting the number of animals in an area based on a video feed is an example of

###Computer vision

Which two scenarios are examples of a natural language processing workload? Each correct answer presents a complete solution.

###a smart device in the home that responds to questions such as, "What will the weather be like today?"

###a website that uses a knowledge base to interactively respond to users' questions

Which two scenarios are examples of a natural language processing workload? Each correct answer presents a complete solution

###Regular Expression

You need to analyze images of vehicles on a highway and measure the distance between the vehicles.

###Object Detection

Assign categories to passengers based on demographic data.

Predict the amount of consumed fuel based on flight distance.

Predict whether a passenger will miss their flight based on demographic data###

###Classification , Regression , Classification

For a regression model, labels must be numeric.

For a clustering model, labels must be provided.

For a classification model, labels must be numeric

###YNN

A webchat bot can interact with users visiting a website.

Automatically generating captions for pre-recorded videos is an example of natural language processing.

A smart device in the home that responds to questions such as "What will the weather be like today?" is an example of natural language processing.

###YYY

You are building a chatbot that will use natural language processing (NLP) to

perform the following actions based on the text input of a user:

- Accept customer orders.
- Retrieve support documents.
- Retrieve order status updates

###named entity recognition

A company employs a team of customer service agents to provide telephone and email support to customers.

The company develops a webchat bot to provide automated answers to common customer queries.

Which business benefit should the company expect as a result of creating the webchat bot solution?

### a reduced workload for the customer service agents

You need to scan the news for articles about your customers and alert employees when there is a negative article. Positive articles must be added to a press book.

Which natural language processing tasks should you use to complete the process?

To answer, drag the appropriate tasks to the correct locations. Each task may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

###Box 1: Entity recognition -

###Box 2: Sentiment Analysis -

Enables the use of natural language to query a knowledge base.

Enables the real-time transcription of speech-to-text.

###Language Service , Speech

You have an Azure Machine Learning pipeline that contains a Split Data module.

The Split Data module outputs to a Train Model module and a Score Model module.

What is the function of the Split Data module?

###creating training and validation datasets

can be used to create a knowledge base from frequently asked questions (FAQ

###Azure QnA Maker

Azure AI Vision \_

can be used to identify the location of a bicycle in an image

###object detection

Which three actions improve the quality of responses returned by a generative AI solution that uses GPT-3.5? Each correct answer presents a complete solution.

### Add training data to prompts

###Provide additional examples to prompts

###Add grounding data to prompts.

Which parameter should you configure to produce a more diverse range of tokens in the responses from a chat solution that uses the Azure OpenAI GPT-3.5 model?

###Presence penalty

As part of the Microsoft responsible AI principles, customers must \_ before they can use Azure OpenAI

###Obtain approval based on their intended usage



Automated machine learning is the process of automating the time-consuming, iterative tasks of machine learning model development  
Automated machine learning can automatically infer the training data from the use case provided  
Automated machine learning works by running multiple training iterations that are scored and ranked by the metrics you specify.  
Automated machine learning enables you to specify a dataset and will automatically understand which label to predict  
###YNYN

Predicting how many vehicles will travel across a bridge on a given day is an example of  
###regression

You have the following dataset.  
Household Income  
Postal Code  
House Price Category  
20,000  
55555  
Low  
### A feature , A label

Which OpenAI model does GitHub Copilot use to make suggestions for client-side JavaScript?  
###Codex

Predict how many minutes late a flight will arrive based on the amount of snowfall at an airport.  
Segment customers into a defined number of different groups to support a marketing department.  
Predict whether a student will complete a university course  
###Regression , Clustering , Classification

Data values that are used to make a prediction are called  
###Features

You use Azure Machine Learning designer to build a model pipeline.  
What should you create before you can run the pipeline?  
### a compute resource

A medical research project uses a large dataset of brain scan images that are categorized into predefined brain hemorrhage types.  
You need to use machine learning to support early detection of the different brain hemorrhage types in the images before the images are reviewed by a person  
###Classification

The system must not discriminate based on gender, race, or age.  
Personal data must be visible only to approved users.  
Automated decision-making processes must be recorded so that approved users can identify why a decision was made.  
###1. Fairness  
2. Privacy and security  
3. Transparency

The decision-making process must be recorded so that staff can identify the reasoning behind a particular quote:

A customer's personal information must be visible only to staff who are involved in the decision-making process:

The system must be accessible to customers who use screen readers or other assistive technology

###Transparency

Privacy and security

Inclusiveness

You are designing an AI system that empowers everyone, including people who have hearing, visual, and other impairments.

This is an example of which Microsoft guiding principle for responsible AI?

###Inclusiveness

Your company wants to build a recycling machine for bottles. The recycling machine must automatically identify bottles of the correct shape and reject all other items.

Which type of AI workload should the company use?

### computer vision

Computer vision capabilities can be deployed to

###integrate a face detection feature into an app

A smart device in the home that responds to questions such as "When is my next appointment?" is an example of conversational AI.

An interactive webchat feature on a company website can be implemented by using Azure Bot Service.

Automatically generating captions for pre-recorded videos is an example of conversational AI

### YYN

Which term is used to describe uploading your own data to customize an Azure OpenAI model?

### Fine Tuning

\_\_extracts text from handwritten documents

###OCR

What is an example of the Microsoft responsible AI principle of transparency?

###helping users understand the decisions made by an AI system

When creating an object detection model in the Azure AI Custom Vision service, you must choose a classification type of either Multilabel or Multiclass.

You can create an object detection model in the Azure AI Custom Vision service to find the location of items within an image.

When creating an object detection model in the Azure AI Custom Vision service, you can select from a set of predefined domains.

###NYN

A historian can use \_\_\_\_\_ to digitize newspaper articles.

###Optical character recognition (OCR)

Your company manufactures widgets.

You have 1,000 digital photos of the widgets.

You need to identify the location of the widgets within the photos.

What should you use?

###Custom Vision object detection

You need to develop a mobile app for employees to scan and store their expenses while travelling.

Which type of computer vision should you use?

###optical character recognition (OCR)

You need to count the number of animals in a photograph.

Which type of computer vision should you use?

###Object detection

Generating text that describes an image is an example of

### image classification.